
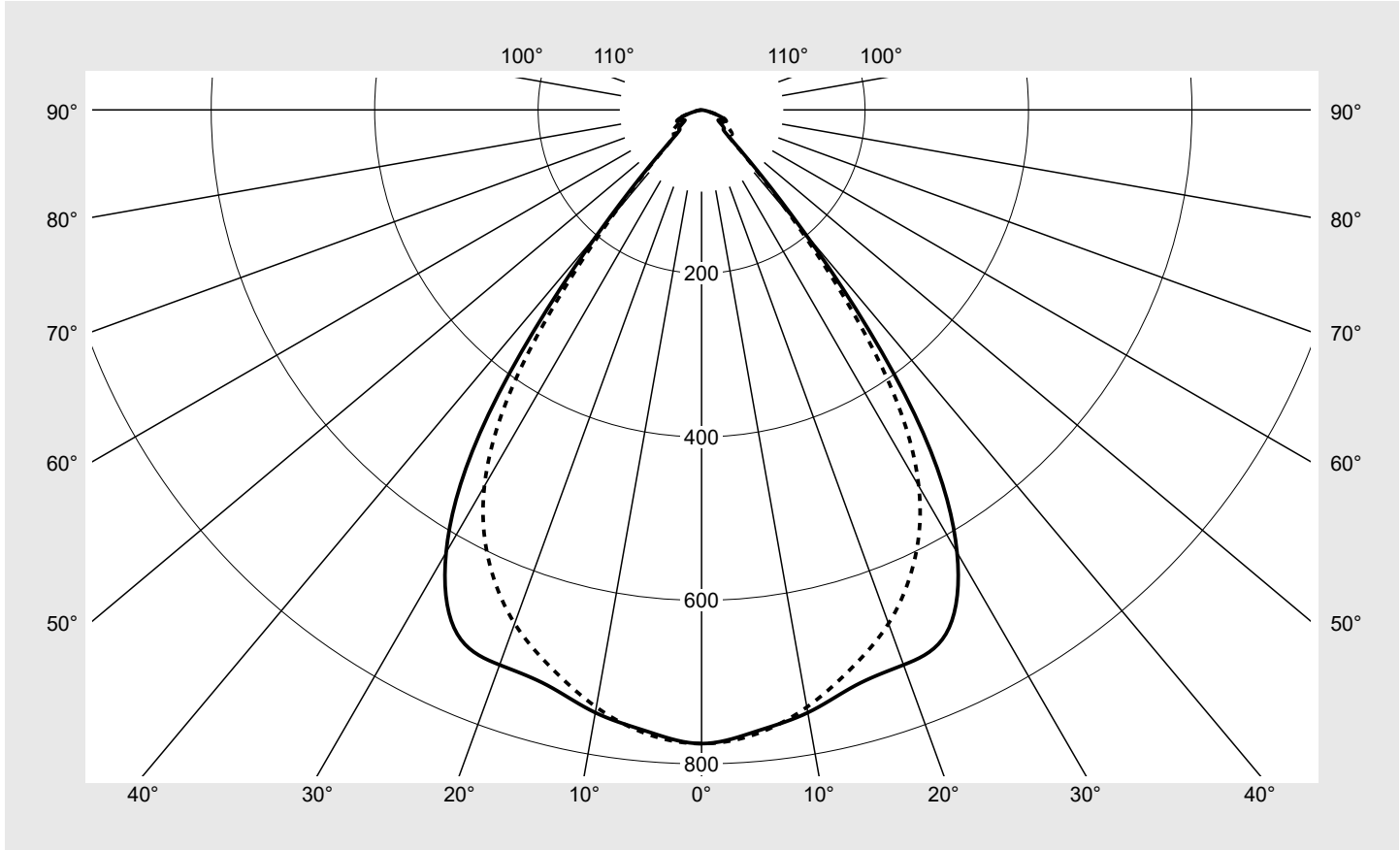


Photometric test report

| | | |
|---|---|---|
| Family Highbay 21 | Order number: 51HLASD14FGB EAN: 4058352418024 | LP number 58922_24 |
|  | Version wide distribution, UGR≤22 Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI | serial documentation 01.07.2020 |
| | Rated values Net luminous flux = 13800 lm Power consumption = 85.5 W Luminous efficacy = 161.4 lm/W |  |

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 775 cd/klm**



| Classifications | |
|-----------------|------------------------------------|
| DIN 5040 | A 6 0 |
| CIE | N1=89 N2=96 N3=99 N4=100 N5=100 |

| Luminaire light output ratios | |
|-------------------------------|--------|
| η_{LB} | 100.0% |
| ϕ_u | 100.0% |
| ϕ_o | 0.0% |

Measurement conditions
 DIN EN 13032 and DIN 5032

Photometric test report

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| Table of values for luminous intensities | Maximum luminous intensity |
|--|----------------------------|

| C-planes γ | 0° 180° | 15° | 30° | 45° | 60° | 75° | 90° 270° | Phi-zone | Total Phi-zone |
|------------------------------|------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------|-------------------------|-------------------|
| | | 165° 195° 345° | 150° 210° 330° | 135° 225° 315° | 120° 240° 300° | 105° 255° 285° | | | |
| Luminous intensity in cd/klm | | | | | | | | Luminous flux in lm/klm | |
| 0° | 775.3 | 775.3 | 775.3 | 775.3 | 775.3 | 775.3 | 775.3 | 4.6 | 4.6 |
| 5° | 763.3 | 765.5 | 767.8 | 768.1 | 766.5 | 768.2 | 766.4 | 36.6 | 41.3 |
| 10° | 748.7 | 752.6 | 756.7 | 755.9 | 749.0 | 745.7 | 741.9 | 71.5 | 112.7 |
| 15° | 728.8 | 736.6 | 748.6 | 748.7 | 732.9 | 716.3 | 707.4 | 104.1 | 216.8 |
| 20° | 722.5 | 731.1 | 745.9 | 741.9 | 711.6 | 682.4 | 668.7 | 134.6 | 351.4 |
| 25° | 707.4 | 710.1 | 723.4 | 713.1 | 669.4 | 627.0 | 613.5 | 158.4 | 509.9 |
| 30° | 625.1 | 622.7 | 643.6 | 650.9 | 594.8 | 541.3 | 531.4 | 165.9 | 675.7 |
| 35° | 454.3 | 465.0 | 515.3 | 546.7 | 478.1 | 404.7 | 385.8 | 148.3 | 824.0 |
| 40° | 194.7 | 222.6 | 276.1 | 324.0 | 261.7 | 198.8 | 171.4 | 86.1 | 910.1 |
| 45° | 52.4 | 51.4 | 56.0 | 64.9 | 54.8 | 51.5 | 51.3 | 21.3 | 931.5 |
| 50° | 36.0 | 31.0 | 27.7 | 34.1 | 33.7 | 39.2 | 46.8 | 14.5 | 946.0 |
| 55° | 27.7 | 25.7 | 21.5 | 23.0 | 24.8 | 33.2 | 42.0 | 12.2 | 958.2 |
| 60° | 24.8 | 27.6 | 25.1 | 19.0 | 18.2 | 24.5 | 32.6 | 11.3 | 969.5 |
| 65° | 33.0 | 23.0 | 22.5 | 18.8 | 16.0 | 23.0 | 31.5 | 11.2 | 980.7 |
| 70° | 25.9 | 19.0 | 18.9 | 17.8 | 15.3 | 19.4 | 28.1 | 10.1 | 990.8 |
| 75° | 12.6 | 8.9 | 10.2 | 12.8 | 12.0 | 13.0 | 13.0 | 6.1 | 996.9 |
| 80° | 3.5 | 3.2 | 4.0 | 5.1 | 6.3 | 6.1 | 5.9 | 2.6 | 999.6 |
| 85° | 0.3 | 0.3 | 0.4 | 0.5 | 1.1 | 1.3 | 1.4 | 0.4 | 1000.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |

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|-----------|---------------|--------|--|
| UGR-Table | Standard room | siteco | |
|-----------|---------------|--------|--|

| | | | | | | | | | | | |
|------------------------------|---------------------|------|------|------|------|--------------------|------|------|------|------|------|
| Reflection factor of ceiling | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | |
| Reflection factor of walls | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | |
| Reflection factor of floor | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | |
| Room dimensions | View crosswise (C0) | | | | | View endwise (C90) | | | | | |
| x | y | | | | | | | | | | |
| 2H | 2H | 20.2 | 21.5 | 20.6 | 21.8 | 22.2 | 19.7 | 21.0 | 20.1 | 21.3 | 21.6 |
| | 3H | 20.7 | 21.8 | 21.0 | 22.1 | 22.5 | 20.2 | 21.4 | 20.6 | 21.7 | 22.1 |
| | 4H | 20.8 | 21.8 | 21.2 | 22.2 | 22.6 | 20.5 | 21.5 | 20.9 | 21.9 | 22.2 |
| | 6H | 20.8 | 21.7 | 21.2 | 22.1 | 22.5 | 20.6 | 21.5 | 21.0 | 21.9 | 22.3 |
| | 8H | 20.9 | 21.7 | 21.3 | 22.0 | 22.4 | 20.6 | 21.5 | 21.1 | 21.8 | 22.2 |
| | 12H | 20.8 | 21.6 | 21.3 | 22.0 | 22.4 | 20.6 | 21.4 | 21.1 | 21.8 | 22.2 |
| 4H | 2H | 20.2 | 21.2 | 20.6 | 21.6 | 21.9 | 19.7 | 20.7 | 20.1 | 21.1 | 21.4 |
| | 3H | 20.7 | 21.6 | 21.1 | 22.0 | 22.4 | 20.3 | 21.1 | 20.7 | 21.5 | 22.0 |
| | 4H | 20.9 | 21.6 | 21.3 | 22.1 | 22.5 | 20.6 | 21.4 | 21.0 | 21.8 | 22.2 |
| | 6H | 20.9 | 21.5 | 21.4 | 22.0 | 22.4 | 20.7 | 21.4 | 21.2 | 21.8 | 22.3 |
| | 8H | 20.9 | 21.4 | 21.3 | 21.9 | 22.4 | 20.8 | 21.3 | 21.2 | 21.8 | 22.3 |
| | 12H | 20.9 | 21.3 | 21.4 | 21.8 | 22.3 | 20.8 | 21.3 | 21.3 | 21.7 | 22.2 |
| 8H | 4H | 20.9 | 21.5 | 21.4 | 21.9 | 22.4 | 20.6 | 21.2 | 21.1 | 21.7 | 22.2 |
| | 6H | 20.9 | 21.4 | 21.4 | 21.9 | 22.4 | 20.8 | 21.3 | 21.3 | 21.8 | 22.3 |
| | 8H | 20.9 | 21.3 | 21.4 | 21.8 | 22.3 | 20.8 | 21.3 | 21.4 | 21.8 | 22.3 |
| | 12H | 20.9 | 21.2 | 21.4 | 21.7 | 22.2 | 20.9 | 21.2 | 21.4 | 21.7 | 22.2 |
| 12H | 4H | 20.9 | 21.4 | 21.4 | 21.8 | 22.3 | 20.7 | 21.1 | 21.1 | 21.6 | 22.1 |
| | 6H | 20.9 | 21.3 | 21.4 | 21.8 | 22.3 | 20.8 | 21.2 | 21.4 | 21.7 | 22.2 |
| | 8H | 20.9 | 21.2 | 21.4 | 21.7 | 22.3 | 20.9 | 21.2 | 21.4 | 21.7 | 22.2 |

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|-----------------|---------------------------------|-------------------------------|--------------------|
| Luminance table | Max. for $\gamma \geq 65^\circ$ | Photometric dimensions in mm: | L = 300 B = 320 |
|-----------------|---------------------------------|-------------------------------|--------------------|

| C-planes | γ | Luminance in cd/m ² | | | | | | |
|----------|----------|--------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------|
| | | 0° 180° | 15° 165° 195° 345° | 30° 150° 210° 330° | 45° 135° 225° 315° | 60° 120° 240° 300° | 75° 105° 255° 285° | 90° 270° |
| 45° | 10647.3 | 10453.3 | 11385.4 | 13186.2 | 11145.3 | 10476.5 | 10421.6 | |
| 50° | 8051.1 | 6939.9 | 6205.4 | 7633.1 | 7543.0 | 8762.0 | 10455.4 | |
| 55° | 6937.7 | 6437.7 | 5385.1 | 5776.6 | 6205.9 | 8314.3 | 10525.8 | |
| 60° | 7129.1 | 7948.5 | 7214.5 | 5473.1 | 5227.6 | 7048.9 | 9365.3 | |
| 65° | 11230.5 | 7809.0 | 7660.7 | 6405.5 | 5428.3 | 7811.3 | 10724.7 | |
| 70° | 10901.2 | 7972.6 | 7952.9 | 7491.8 | 6439.8 | 8170.6 | 11807.0 | |
| 75° | 6987.0 | 4915.4 | 5650.7 | 7112.5 | 6662.7 | 7209.7 | 7225.8 | |
| 80° | 2897.4 | 2683.0 | 3334.5 | 4216.9 | 5230.2 | 5015.8 | 4877.5 | |
| 85° | 508.0 | 499.8 | 585.5 | 852.7 | 1824.2 | 2116.1 | 2320.6 | |

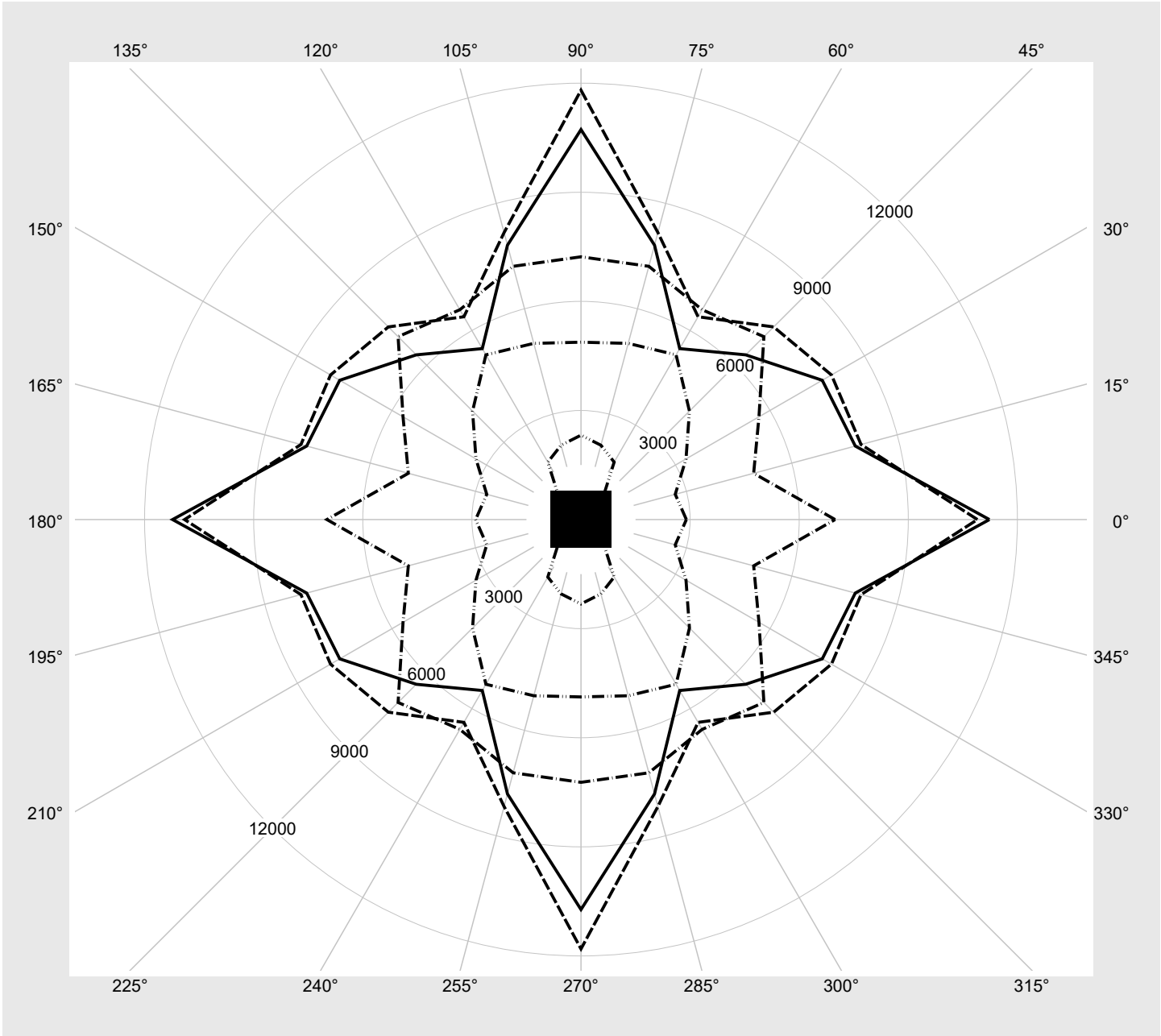
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|------------------------------------|--|-------------------------------------|

Luminance values in cd/m²

| | | | | |
|--------------|--------------|--------------|--------------|--------------|
| γ 65° | γ 70° | γ 75° | γ 80° | γ 85° |
|--------------|--------------|--------------|--------------|--------------|

siteco



Photometric test report

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|-----------------------------|---------------------------------|---------------|
| Dimming levels table | environmental temperature: 25°C | sITeco |
|-----------------------------|---------------------------------|---------------|

| Luminous flux % | Dimming level linear | Dimming level logarithmic | Luminous flux [lm] | Power consumption [W] |
|-----------------|----------------------|---------------------------|--------------------|-----------------------|
| 100 | 254 | 254 | 13800 | 85.5 |
| 95 | 240 | 252 | 13104 | 80.6 |
| 90 | 227 | 250 | 12442 | 76.0 |
| 85 | 213 | 248 | 11729 | 71.1 |
| 80 | 200 | 245 | 11059 | 66.7 |
| 75 | 186 | 243 | 10330 | 61.8 |
| 70 | 173 | 240 | 9643 | 57.3 |
| 65 | 160 | 237 | 8952 | 52.9 |
| 60 | 148 | 234 | 8303 | 48.7 |
| 55 | 135 | 231 | 7597 | 44.4 |
| 50 | 122 | 227 | 6883 | 39.9 |
| 45 | 110 | 223 | 6218 | 35.9 |
| 40 | 97 | 219 | 5494 | 31.6 |
| 35 | 85 | 214 | 4820 | 27.6 |
| 30 | 73 | 208 | 4140 | 23.6 |
| 25 | 61 | 202 | 3455 | 19.7 |
| 20 | 49 | 194 | 2764 | 15.8 |
| 15 | 37 | 183 | 2067 | 11.8 |
| 10 | 25 | 169 | 1364 | 8.0 |
| 5 | 14 | 148 | 716 | 4.4 |
| 1 | 5 | 110 | 182 | 1.6 |